

# WEST Search History





10/7/14, 870

DATE: Tuesday, December 13, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L14	L13 not l10	4
<input type="checkbox"/>	L13	l1 same L12 same l5	5
<input type="checkbox"/>	L12	ammonium carbonate	15013
<input type="checkbox"/>	L11	L10 not l6	1
<input type="checkbox"/>	L10	l1 same l4 same l5	13
<input type="checkbox"/>	L9	l6 not L8	5
<input type="checkbox"/>	L8	l6 same L7	7
<input type="checkbox"/>	L7	solid\$1 or granul\$6 or particulat\$2 or particle\$1 or powder\$1	3540332
<input type="checkbox"/>	L6	l2 same l4 same L5	12
<input type="checkbox"/>	L5	surfact\$6 or (surface active\$1) or tensioactive\$1	414233
<input type="checkbox"/>	L4	ammonium adj (bicarbonate or (hydrogen carbonate))	8862
<input type="checkbox"/>	L3	ammonium \$2carbonate	20005
<input type="checkbox"/>	L2	acid near5 l1	1381
	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L1	glyphosate OR (roundup or spator or muster or glifonox or glycel) OR (phosphonomethylglycine or ((phosphonomethyl or (phosphono methyl) glycine))	9390

END OF SEARCH HISTORY

## WEST Search History





DATE: Tuesday, December 13, 2005

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	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8	16 same L7	7
<input type="checkbox"/>	L7	solid\$1 or granul\$6 or particulat\$2 or particle\$1 or powder\$1	3540332
<input type="checkbox"/>	L6	12 same l4 same L5	12
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	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L1	glyphosate OR (roundup or spator or muster or glifonox or glycel) OR (phosphonomethylglycine or ((phosphonomethyl or (phosphono methyl)) glycine))	9390

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<input type="checkbox"/>	L8	16 same L7	7
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<input type="checkbox"/>	L6	12 same l4 same L5	12
<input type="checkbox"/>	L5	surfact\$6 or (surface active\$1) or tensioactive\$1	414233
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<input type="checkbox"/>	L3	ammonium \$2carbonate	20005
<input type="checkbox"/>	L2	acid near5 l1	1381
		<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L1	glyphosate OR (roundup or spator or muster or glifonox or glycel) OR (phosphonomethylglycine or ((phosphonomethyl or (phosphono methyl)) glycine))	9390

END OF SEARCH HISTORY

## Hit List

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Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 20040097372 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 5

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040097372

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040097372 A1

TITLE: Pesticide compositions containing dicarboxylic acids

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Abraham, William	Wildwood	MO	US
Stern, Michael K.	Clayton	MO	US
Graham, Jeffrey Alan	Chesterfield	MO	US
Xu, Xiaodong Chris	Valley Park	MO	US
Brinker, Ronald J.	Ellisville	MO	US
Travers, Jeffrey N.	Chesterfield	MO	US
Reynolds, Tracey L.	Ballwin	MO	US

US-CL-CURRENT: 504/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Ds
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2. Document ID: US 6228807 B1

L9: Entry 2 of 5

File: USPT

May 8, 2001

US-PAT-NO: 6228807

DOCUMENT-IDENTIFIER: US 6228807 B1

TITLE: Glyphosate formulations .

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuchikata; Masuo	Ibaraki			JP
Prill; Erhard J.	Kirkwood	MO		

Richardson; Ronald O.	Ellisville	MO	
Sato; Tatsuo	Tokyo		JP
Surgant; John M.	Clayton	MO	
Wright; Daniel R.	St. Louis	MO	

US-CL-CURRENT: [504/206](#); [504/366](#), [504/367](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw De
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☐ 3. Document ID: US 5872078 A

L9: Entry 3 of 5

File: USPT

Feb 16, 1999

US-PAT-NO: 5872078

DOCUMENT-IDENTIFIER: US 5872078 A

TITLE: Glyphosate formulations

DATE-ISSUED: February 16, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuchikata; Masuo	Ibaraki			JP
Prill; Erhard J.	Kirkwood	MO		
Richardson; Ronald O.	Ellisville	MO		
Sato; Tatsuo	Tokyo			JP
Surgant; John M.	Clayton	MO		
Wright; Daniel R.	St. Louis	MO		

US-CL-CURRENT: [504/206](#); [504/127](#), [504/128](#), [504/135](#), [504/137](#), [504/144](#), [504/146](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw De
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☐ 4. Document ID: US 5656572 A

L9: Entry 4 of 5

File: USPT

Aug 12, 1997

US-PAT-NO: 5656572

DOCUMENT-IDENTIFIER: US 5656572 A

TITLE: Method of controlling weeds

DATE-ISSUED: August 12, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuchikata; Masuo	Ibaraki			JP
Prill; Erhard J.	Kirkwood	MO		
Richardson; Ronald O.	Ellisville	MO		

Sato; Tatsuo	Tokyo	JP
Surgant; John M.	Clayton	MO
Wright; Daniel R.	St. Louis	MO

US-CL-CURRENT: [504/206](#); [504/362](#), [504/367](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Da
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☒ 5. Document ID: US 5565409 A

L9: Entry 5 of 5

File: USPT

Oct 15, 1996

US-PAT-NO: 5565409

DOCUMENT-IDENTIFIER: US 5565409 A

TITLE: Liquid concentrated herbicidal microemulsion compositions comprising glyphosate and either oxyfluorfen or acifluorfen

DATE-ISSUED: October 15, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sato; Tatsuo	Tokyo			JP
Khan; Shuaib A.	Brussels			BE
Mitchell; Robert W.	Overijse			BE

US-CL-CURRENT: [504/127](#); [504/365](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Da
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☐ 1. Document ID: US 20050037924 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 7

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050037924

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050037924 A1

TITLE: Sodium glyphosate compositions and process for their preparation

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Massmann, Brent D.	Ballwin	MO	US
Wang, John T.	St. Louis	MO	US
Campbell, Dwane H.	Wildwood	MO	US

US-CL-CURRENT: [504/206](#); [562/17](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMIC</a>	<a href="#">Draw De</a>
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☒ 2. Document ID: US 20040077499 A1

L8: Entry 2 of 7

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077499

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040077499 A1

TITLE: Process for the preparation of a dry pesticidal composition containing a dicarboxylate component

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Jeffrey A.	Chesterfield	MO	US
Abraham, William	Wildwood	MO	US
Wang, John T.	St. Louis	MO	US
Calabotta, Beth J.	University City	MO	US

Massmann, Brent D.	Ballwin	MO	US
Miller, William H.	Glendale	MO	US

US-CL-CURRENT: 504/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw De
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☒ 3. Document ID: US 6605568 B1

L8: Entry 3 of 7

File: USPT

Aug 12, 2003

US-PAT-NO: 6605568

DOCUMENT-IDENTIFIER: US 6605568 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for making a downstream processable ammonium glyphosate paste

DATE-ISSUED: August 12, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Massmann; Brent D.	Ballwin	MO		
Kramer; Richard M.	Chesterfield	MO		
Wang; John T.	St. Louis	MO		
Toussaint; Marc Emile	late of Corroy-le-Grand			BE

US-CL-CURRENT: 504/127; 504/128, 504/206, 562/17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw De
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☒ 4. Document ID: US 6599858 B1

L8: Entry 4 of 7

File: USPT

Jul 29, 2003

US-PAT-NO: 6599858

DOCUMENT-IDENTIFIER: US 6599858 B1

TITLE: Process for making ammonium glyphosate flakes

DATE-ISSUED: July 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kramer; Richard M.	Chesterfield	MO		

US-CL-CURRENT: 504/206; 562/17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw De
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☒ 5. Document ID: US 6448434 B1

L8: Entry 5 of 7

File: USPT

Sep 10, 2002

US-PAT-NO: 6448434

DOCUMENT-IDENTIFIER: US 6448434 B1

TITLE: Process for making ammonium glyphosate powder

DATE-ISSUED: September 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kramer; Richard M.	Chesterfield	MO		

US-CL-CURRENT: 562/17; 504/206

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☒ 6. Document ID: US 5716903 A

L8: Entry 6 of 7

File: USPT

Feb 10, 1998

US-PAT-NO: 5716903

DOCUMENT-IDENTIFIER: US 5716903 A

TITLE: Preparation of ammonium glyphosate using aqueous ammonium hydroxide in a liquid-solid reaction system

DATE-ISSUED: February 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kramer; Richard M.	Chesterfield	MO		
Day; Thomas M.	Creve Coeur	MO		
Lindemann, Jr.; Ralph E.	St. Louis	MO		
Gillespie; Jane L.	University City	MO		

US-CL-CURRENT: 504/206

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☒ 7. Document ID: US 5614468 A

L8: Entry 7 of 7

File: USPT

Mar 25, 1997

US-PAT-NO: 5614468

DOCUMENT-IDENTIFIER: US 5614468 A

TITLE: Preparation of ammonium glyphosate using aqueous ammonium hydroxide in a liquid-solid reaction system

DATE-ISSUED: March 25, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kramer; Richard M.	Chesterfield	MO		
Day; Thomas M.	Creve Coeur	MO		
Lindemann, Jr.; Ralph E.	St. Louis	MO		
Gillespie; Jane L.	University City	MO		

US-CL-CURRENT: 504/206

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	RIMC	Draw De
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L8: Entry 2 of 7

File: PGPB

Apr 22, 2004

DOCUMENT-IDENTIFIER: US 20040077499 A1

TITLE: Process for the preparation of a dry pesticidal composition containing a dicarboxylate component

Summary of Invention Paragraph:

[0010] In French Patent Publication No. 2.692.439 assigned to Productos Osa SACIFIA, there is generally described a phytotoxic preparation comprising the mono-ammonium salt of N-phosphonomethylglycine as a powder or granule in combination with a wetting agent, surfactant and/or a pulverulent additive. As exemplified in the reference, the mono-ammonium salt is derived from reacting glyphosate acid with ammonium bicarbonate.

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L8: Entry 3 of 7

File: USPT

Aug 12, 2003

DOCUMENT-IDENTIFIER: US 6605568 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for making a downstream processable ammonium glyphosate paste

Brief Summary Text (18):

Solid-state reaction of glyphosate acid and ammonium bicarbonate, as disclosed for example in the above-referenced '572 patent, tends to produce a particulate ammonium glyphosate having sufficient absorbency and/or adsorbency to permit satisfactory formulation with up to about 25% by weight of a liquid surfactant such as polyoxyethylene tallowamine. By contrast, reaction of a slurry of glyphosate acid with anhydrous ammonia or aqueous ammonia (ammonium hydroxide) followed by drying to form an ammonium glyphosate powder tends to produce relatively non-absorptive or non-adsorptive ammonium glyphosate particles.

Brief Summary Text (19):

Because anhydrous and aqueous ammonia are much lower-cost sources of the ammonium cation than ammonium bicarbonate, numerous efforts have been made to develop processes wherein glyphosate acid is reacted with anhydrous or aqueous ammonia, yet wherein the resulting ammonium glyphosate is suitable for downstream formulation with surfactant, especially a liquid surfactant. To date, success has been achieved only when the reaction occurs in the presence of very small amounts of water, for example about 7 parts or less by weight of water per 100 parts by weight of dry ingredients. U.S. Pat. No. 5,614,468 to Kramer et al. discloses such a process wherein solid particulate glyphosate acid is reacted with aqueous ammonia, and U.S. Pat. No. 5,633,397 to Gillespie et al. discloses such a process wherein solid particulate glyphosate acid is reacted with gaseous anhydrous ammonia.

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L8: Entry 4 of 7

File: USPT

Jul 29, 2003

DOCUMENT-IDENTIFIER: US 6599858 B1

TITLE: Process for making ammonium glyphosate flakes

Brief Summary Text (12):

Solid-state reaction of glyphosate acid and ammonium bicarbonate, as disclosed for example in above-referenced U.S. Pat. No. 5,656,572, produces a particulate ammonium glyposate that can be used directly as a herbicidal product, or granulated, for example by pan granulation, to make a dry granular herbicidal product, or further processed with surfactant. Alternatively, an aqueous slurry of glyphosate acid can be reacted with anhydrous ammonia or aqueous ammonia (ammonium hydroxide) to produce a concentrated solution or slurry of ammonium glyphosate. This solution or slurry then has to be dried if the desired finished product is a dry herbicidal composition.

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L8: Entry 5 of 7

File: USPT

Sep 10, 2002

DOCUMENT-IDENTIFIER: US 6448434 B1

TITLE: Process for making ammonium glyphosate powder

Brief Summary Text (17):

Solid-state reaction of glyphosate acid and ammonium bicarbonate, as disclosed for example in the above-referenced '572 patent, tends to produce a particulate ammonium glyposate having sufficient absorbency and/or adsorbency to permit satisfactory formulation with up to about 25% by weight of a liquid surfactant such as polyoxyethylene tallowamine. By contrast, reaction of an aqueous slurry of glyphosate acid with anhydrous ammonia or aqueous ammonia (ammonium hydroxide) tends to produce relatively non-absorptive or non-adsorptive ammonium glyphosate particles.

Brief Summary Text (18):

Because anhydrous and aqueous ammonia are much lower-cost sources of the ammonium cation than ammonium bicarbonate, numerous efforts have been made to develop processes wherein glyphosate acid is reacted with anhydrous or aqueous ammonia, yet wherein the resulting ammonium glyphosate is suitable for downstream formulation with surfactant, especially a liquid surfactant. To date, success has been achieved only when the reaction occurs in the presence of very small amounts of water, for example about 7 parts or less by weight of water per 100 parts by weight of dry ingredients. U.S. Pat. No. 5,614,468 to Kramer et al. discloses such a process wherein solid particulate glyphosate acid is reacted with aqueous ammonia, and U.S. Pat. No. 5,633,397 to Gillespie et al. discloses such a process wherein solid particulate glyphosate acid is reacted with anhydrous ammonia gas.

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☒ 3. Document ID: US 5633397 A

L14: Entry 3 of 4

File: USPT

May 27, 1997

US-PAT-NO: 5633397

DOCUMENT-IDENTIFIER: US 5633397 A

TITLE: Preparation of ammonium glyphosate via a gas-solid reaction system

DATE-ISSUED: May 27, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gillespie; Jane L.	University City	MO		
Day; Thomas M.	Creve Coeur	MO		
Kramer; Richard M.	Chesterfield	MO		

US-CL-CURRENT: 562/17; 558/133

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Ds
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☒ 4. Document ID: FR 2692439 A1

L14: Entry 4 of 4

File: EPAB

Dec 24, 1993

PUB-NO: FR002692439A1

DOCUMENT-IDENTIFIER: FR 2692439 A1

TITLE: Phytotoxic agent contg. glyphosate ammonium salt - as stable, non-toxic, easily transported water-soluble form of herbicide N-phosphono:methyl-glycine

PUBN-DATE: December 24, 1993

## INVENTOR-INFORMATION:

NAME	COUNTRY
NORBERTO, CHUTRAU	

INT-CL (IPC): A01N 57/04

EUR-CL (EPC): A01N057/20; C07F009/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Ds
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## Hit List

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L14: Entry 1 of 4

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100449

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100449 A1

TITLE: Solid herbicidal composition

PUBLICATION-DATE: May 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Maeda, Masaru	Kusatsu-shi		JP
Shimizu, Manabu	Kusatsu-shi		JP

US-CL-CURRENT: 504/127; 504/136

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 2. Document ID: US 6165939 A

L14: Entry 2 of 4

File: USPT

Dec 26, 2000

US-PAT-NO: 6165939

DOCUMENT-IDENTIFIER: US 6165939 A

TITLE: Concentrate herbicidal composition

DATE-ISSUED: December 26, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Agbaje, Henry E.	St. Louis	MO		
Brinker, Ronald J.	Ellisville	MO		
Carter, Deborah J.	Wildwood	MO		

US-CL-CURRENT: 504/105; 504/107, 504/128

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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